

Please type a plus sign (+) inside this box → ☐

PTO/SB/01 (10-00)
Approved for use through 10/31/2002. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63) <input type="checkbox"/> Declaration Submitted with Initial Filing OR <input checked="" type="checkbox"/> Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)	Attorney Docket Number	283014-00029
	First Named Inventor	Louise C. Sengupta
	COMPLETE IF KNOWN	
	Application Number	09 / 768,690
	Filing Date	January 24, 2001
	Group Art Unit	
	Examiner Name	

As a below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

ELECTRONICALLY TUNABLE, LOW-LOSS CERAMIC MATERIALS INCLUDING
A TUNABLE DIELECTRIC PHASE AND MULTIPLE METAL OXIDE PHASES

(Title of the Invention)

the specification of which

☐ is attached hereto

OR

☒ was filed on (MM/DD/YYYY)

1/24/01

as United States Application Number or PCT International

Application Number

09/768,690

and was amended on (MM/DD/YYYY)

(if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
			<input type="checkbox"/>	YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)	<input type="checkbox"/> Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

[Page 1 of 2]

Burden Hour Statement: This form is estimated to take 21 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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DECLARATION — Utility or Design Patent Application

Direct all correspondence to: <input checked="" type="checkbox"/> Customer Number		003705		OR <input type="checkbox"/> Correspondence address below	
Name Alan G. Towner					
Address Eckert Seamans Cherin & Mellott, LLC					
Address 600 Grant Street, 44th Floor					
City Pittsburgh		State PA		ZIP 15219	
Country USA		Telephone 412 566-6109		Fax 412 566-6099	
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.					
NAME OF SOLE OR FIRST INVENTOR :			<input type="checkbox"/> A petition has been filed for this unsigned inventor		
Given Name (first and middle (if any)) Louise C.			Family Name or Surname Sengupta		
Inventor's Signature <i>Louise C. Sengupta</i>			Date 3/1/01		
Residence: City Warwick		State MD	Country USA	Citizenship USA	
Mailing Address 12 New Haven Boulevard					
Mailing Address					
City Warwick		State MD		ZIP 21912	
Country USA					
NAME OF SECOND INVENTOR:			<input type="checkbox"/> A petition has been filed for this unsigned inventor		
Given Name (first and middle (if any)) Xubai			Family Name or Surname Zhang		
Inventor's Signature <i>Xubai Zhang</i>			Date 3/1/01		
Residence: City Ellicott City		State MD	Country USA	Citizenship China	
Mailing Address 8751 Manahan Drive					
Mailing Address					
City Ellicott City		State MD		ZIP 21043	
Country USA					
<input checked="" type="checkbox"/> Additional inventors are being named on the <u>1</u> supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.					

Please type a plus sign (+) inside this box → ☐

PTO/SB/02A (11-00)

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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DECLARATION

ADDITIONAL INVENTOR(S)

Supplemental Sheet

Page 1 of 1

Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle [if any])		Family Name or Surname	
Luna H.		Chiu	
Inventor's Signature <i>Luna H. Chiu</i>		Date	
Residence: City	Abingdon	State	MD
Country	USA	Citizenship	USA
Mailing Address 3929 Bush Court			
Mailing Address			
City	Abingdon	State	MD
ZIP	21009	Country	USA
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle [if any])		Family Name or Surname	
Inventor's Signature		Date	
Residence: City		State	
Country		Citizenship	
Mailing Address			
Mailing Address			
City		State	
ZIP		Country	
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle [if any])		Family Name or Surname	
Inventor's Signature		Date	
Residence: City		State	
Country		Citizenship	
Mailing Address			
Mailing Address			
City		State	
ZIP		Country	

Burden Hour Statement: This form is estimated to take 21 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box → +

PTO/SB/81 (10-00)

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POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

Application Number	09/768,690
Filing Date	January 24, 2001
First Named Inventor	Louise C. Sengupta
Group Art Unit	1755
Examiner Name	David M. Brunzman
Attorney Docket Number	283014-0029

I hereby appoint:

☒ Practitioners at Customer Number

27512



27512

☒ Practitioner(s) named below:

Name	Registration Number
James S. Finn	38,450
Donald D. Mondul	29,957
Michael N. Haynes	40,014

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please change the correspondence address for the above-identified application to:

☐ The above-mentioned Customer Number.

OR

<input checked="" type="checkbox"/> Firm or Individual Name	William J. Tucker				
Address	8650 Southwestern Blvd. #2825				
Address					
City	Dallas	State	TX	Zip	75206
Country	USA				
Telephone	(214) 368-4978	Fax	(214) 368-4978		

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

SIGNATURE of Applicant or Assignee of Record

Name	Louise C. Sengupta, Chairman and CTO, Paratek Microwave, Inc.
Signature	
Date	10/11/02

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

☐ Total of _____ forms are submitted.

CERTIFICATE UNDER 37 CFR 3.73(b)Applicant: Louise C. SenguptaApplication No.: 09/768,690Filed: January 24, 2001Entitled: ELECTRONICALLY TUNABLE, LOW-LOSS CERAMIC MATERIALS INCLUDING A TUNABLE DIELECTRIC PHASE AND MULTIPLE METAL OXIDE PHASESParatek Microwave, Inc., a Corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

certifies that it is the assignee of the entire right, title and interest in the patent application identified above by virtue of either:

A. ☒ An assignment from the inventor(s) of the patent application identified above. The assignment was recorded in the Patent and Trademark Office at Reel 12661, Frame 0310, or for which a copy thereof is attached.

OR

B. ☐ A chain of title from the inventor(s), of the patent application identified above, to the current assignee as shown below:

1. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

2. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

3. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☐ Copies of assignments or other documents in the chain of title are attached.

The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

10/11/02

Date

Louise C. Sengupta

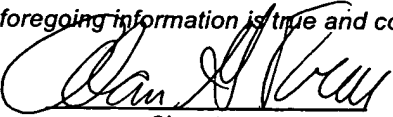
Signature

Louise C. Sengupta

Typed or printed name

Chairman and CTO, Paratek Microwave, Inc.

Title

Form PTO-1595 (Rev. 03/01) OMB No. 0651-0027 (exp. 5/31/2002) Tab settings ⇌ ⇌ ⇌ ▼ ▼ ▼ ▼ ▼ ▼ ▼ ▼		RECORDATION FORM COVER SHEET PATENTS ONLY		U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office	
To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.					
1. Name of conveying party(ies): Louise C. SENGUPTA Xubai ZHANG Luna H. CHIU Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		2. Name and address of receiving party(ies) Name: <u>PARATEK MICROWAVE, INC.</u> Internal Address: _____ Street Address: <u>6935 Oakland Mills Road</u> <u>Suite N</u> City: <u>Columbia</u> State: <u>MD</u> Zip: <u>21045</u> Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
3. Nature of conveyance: <input type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input checked="" type="checkbox"/> Other <u>Corrective document submission for</u> <u>assignment recorded at</u> <u>Reel/Frame 011748/0143.</u> Execution Date: _____					
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: _____ A. Patent Application No.(s) <u>09/768,690</u> B. Patent No.(s) _____ Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>Alan G. TOWNER</u> Internal Address: <u>Pietragallo, Bosick & Gordon</u> Street Address: <u>One Oxford Centre, 38th Floor</u> <u>301 Grant Street</u> City: <u>Pittsburgh</u> State: <u>PA</u> Zip: <u>15219</u>		6. Total number of applications and patents involved: <u>1</u> 7. Total fee (37 CFR 3.41).....\$ <u>40.00</u> <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account 8. Deposit account number: <u>500859</u> (Attach duplicate copy of this page if paying by deposit account)			
DO NOT USE THIS SPACE					
9. Statement and signature. <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i> Alan G. TOWNER Name of Person Signing  Signature Feb. 15, 2002 Date Total number of pages including cover sheet, attachments, and documents: <u>9</u>					

ASSIGNMENT

WHEREAS, WE, **LOUISE C. SENGUPTA**, residing at 12 New Haven Blvd., Warwick, Maryland 21912; **XUBAI ZHANG**, residing at 8751 Manahan Drive, Ellicott City, Maryland 21043; and, **LUNA H. CHIU**, residing at 3929 Bush Court, Abingdon, Maryland 21009; respectively, have invented certain improvements in: **ELECTRONICALLY TUNABLE, LOW-LOSS CERAMIC MATERIALS INCLUDING A TUNABLE DIELECTRIC PHASE AND MULTIPLE METAL OXIDE PHASES** for which we filed Application Serial No. 09/768,690 having a filing date of January 24, 2001; and

WHEREAS, **PARATEK MICROWAVE, INC.**, a corporation organized and existing under the laws of the State of ^{Delaware}~~Maryland~~, having its principal place of business at 6935 Oakland Mills Road, Suite N, Columbia, MD 21045, is desirous of acquiring an interest therein;



NOW, THEREFORE, in consideration of One (\$1.00) Dollar and other good and valuable consideration paid to us by said assignee, receipt whereof we hereby acknowledge, we do hereby assign, sell, transfer, and set over unto said assignee the entire right, title, and interest in and to said application and the inventions and improvements therein disclosed for the United States and all foreign countries and any Letters Patent which may issue therefor in the United States and all foreign countries and all divisions, reissues, continuations, renewals, and/or extensions thereof including all priority rights under the International Convention associated therewith for each country and the Union, said assignee to have and to hold the interests herein assigned to the full ends of the terms of said Letters Patent and any and all divisions, reissues, continuations, renewals, and/or extensions thereof, respectively, as fully and entirely as the same would have been held and enjoyed by us had this assignment not been made.

The Commissioner of Patents and Trademarks is requested to issue such Letters Patent in accordance herewith. We covenant that we are the lawful owners of the said application, inventions, and improvements, that the same are unencumbered, that no license has been granted to make, use, or vend the said

inventions or improvements or any of them, and that we have the full right to make this assignment.

And for the consideration aforesaid, we agree jointly and individually that we will communicate to said assignee or the representatives thereof any facts known to us respecting said inventions and improvements, and will, upon request, but without expense to us, testify in any legal proceedings, sign all lawful papers, execute all divisional, reissue, continuation, renewal, and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts, deemed necessary or expedient by said assignee or by counsel for said assignee, to assist or enable said assignee to obtain and enforce full benefits from the rights and interests herein assigned. This assignment shall be binding upon our heirs, executors, administrators, and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors, and/or assigns, as the case may be, of said assignee.


LOUISE C. SENGUPTA

3/1/01
Date


XUBAI ZHANG

3/1/01
Date


LUNA H. CHIU

3/1 /01
Date

State of Maryland:

County of Howard:

: SS.

Before me, a Notary Public in and for the said County and State, personally appeared **LOUISE C. SENGUPTA, XUBAI ZHANG and LUNA H. CHIU** who acknowledged that they are the persons who executed the foregoing assignment and acknowledged it to be their free and voluntary act and deed.

Witness my hand and notarial seal this 1st day of March, 2001.

Deborah Cowling
Notary Public

(NOTARIAL SEAL)



**UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office**

ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

JULY 17, 2001

PTAS

ECKERT SEAMANS CHERIN & MELLOTT, LLC
ALAN G. TOWNER
600 GRANT STREET, 44TH FLOOR
PITTSBURGH, PENNSYLVANIA 15219



101702408A

**UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT**

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 04/23/2001

REEL/FRAME: 011748/0143
NUMBER OF PAGES: 6

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

SENGUPTA, LOUISE C.

DOC DATE: 03/01/2001

ASSIGNOR:

ZHANG, XUBAI

DOC DATE: 03/01/2001

ASSIGNOR:

CHIU, LUNA H.

DOC DATE: 03/01/2001

ASSIGNEE:

PARATEK MICROWAVE, INC.
6935 OAKLAND MILLS ROAD, SUITE N
COLUMBIA, MARYLAND 21045

SERIAL NUMBER: 09768690

FILING DATE: 01/24/2001

PATENT NUMBER:

ISSUE DATE:

011748/0143 PAGE 2

ALLYSON PURNELL, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

ASSIGNMENT

WHEREAS, WE, **LOUISE C. SENGUPTA**, residing at 12 New Haven Blvd., Warwick, Maryland 21912; **XUBAI ZHANG**, residing at 8751 Manahan Drive, Ellicott City, Maryland 21043; and, **LUNA H. CHIU**, residing at 3929 Bush Court, Abingdon, Maryland 21009; respectively, have invented certain improvements in: **ELECTRONICALLY TUNABLE, LOW-LOSS CERAMIC MATERIALS INCLUDING A TUNABLE DIELECTRIC PHASE AND MULTIPLE METAL OXIDE PHASES** for which we filed Application Serial No. 09/768,690 having a filing date of January 24, 2001; and

WHEREAS, **PARATEK MICROWAVE, INC.**, a corporation organized and existing under the laws of the State of Maryland, having its principal place of business at 6935 Oakland Mills Road, Suite N, Columbia, MD 21045, is desirous of acquiring an interest therein;

NOW, THEREFORE, in consideration of One (\$1.00) Dollar and other good and valuable consideration paid to us by said assignee, receipt whereof we hereby acknowledge, we do hereby assign, sell, transfer, and set over unto said assignee the entire right, title, and interest in and to said application and the inventions and improvements therein disclosed for the United States and all foreign countries and any Letters Patent which may issue therefor in the United States and all foreign countries and all divisions, reissues, continuations, renewals, and/or extensions thereof including all priority rights under the International Convention associated therewith for each country and the Union, said assignee to have and to hold the interests herein assigned to the full ends of the terms of said Letters Patent and any and all divisions, reissues, continuations, renewals, and/or extensions thereof, respectively, as fully and entirely as the same would have been held and enjoyed by us had this assignment not been made.

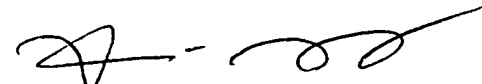
The Commissioner of Patents and Trademarks is requested to issue such Letters Patent in accordance herewith. We covenant that we are the lawful owners of the said application, inventions, and improvements, that the same are unencumbered, that no license has been granted to make, use, or vend the said

inventions or improvements or any of them, and that we have the full right to make this assignment.

And for the consideration aforesaid, we agree jointly and individually that we will communicate to said assignee or the representatives thereof any facts known to us respecting said inventions and improvements, and will, upon request, but without expense to us, testify in any legal proceedings, sign all lawful papers, execute all divisional, reissue, continuation, renewal, and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts, deemed necessary or expedient by said assignee or by counsel for said assignee, to assist or enable said assignee to obtain and enforce full benefits from the rights and interests herein assigned. This assignment shall be binding upon our heirs, executors, administrators, and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors, and/or assigns, as the case may be, of said assignee.


LOUISE C. SENGUPTA

3/1/01
Date


XUBAI ZHANG

3/1/01
Date


LUNA H. CHIU

3/1 /01
Date

State of Maryland :

County of Howard : ss.

Before me, a Notary Public in and for the said County and State, personally appeared **LOUISE C. SENGUPTA, XUBAI ZHANG and LUNA H. CHIU** who acknowledged that they are the persons who executed the foregoing assignment and acknowledged it to be their free and voluntary act and deed.

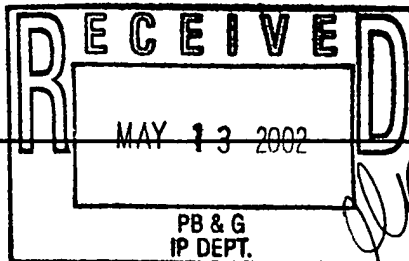
Witness my hand and notarial seal this 1st day of March, 2001.

Deborah Cowling
Notary Public

(NOTARIAL SEAL)



PARA-29



Commissioner for Trademarks
Arlington, VA 22202-3513
www.uspto.gov

MAY 07, 2002

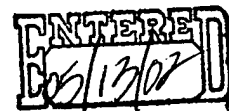
PTAS

PIETRAGALLO, BOSICK & GORDON
ALAN G. TOWNER
ONE OXFORD CENTRE, 38TH FLOOR
301 GRANT STREET
PITTSBURGH, PA 15219



102011524A

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RECORDATION DATE: 03/01/2002

REEL/FRAME: 012661/0310
NUMBER OF PAGES: 7

BRIEF: CORRECTIVE ASSIGNMENT CORRECTING THE INCORPORATION OF STATE ON THE ASSIGNMENT DOCUMENT, PREVIOUSLY RECORDED ON REEL 011748 FRAME 0143

ASSIGNOR:
SENGUPTA, LOUISE C.

DOC DATE: 03/01/2001

ASSIGNOR:
ZHANG, XUBAI

DOC DATE: 03/01/2001

ASSIGNOR:
CHIU, LUNA H.

DOC DATE: 03/01/2001

ASSIGNEE:
PARATEK MICROWAVE INC.
6935 OAKLAND MILLS ROAD
SUITE N
COLUMBIA, MARYLAND 21045

SERIAL NUMBER: 09768690
PATENT NUMBER:

FILING DATE: 01/24/2001
ISSUE DATE:

012661/0310 PAGE 2

MARY BENTON, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

CORRECTIVE DOCUMENT

Form PTO-1595

(Rev. 03/01)

OMB No. 0651-0027 (exp. 5/31/2002)

Tab settings ⇌ ⇌ ⇌ ▼

03-14-2002

U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

To the Honorable Commissioner c

102011524

red original documents or copy thereof.

1. Name of conveying party(ies):

Louise C. SENGUPTA
Xubai ZHANG
Luna H. CHIU

3.1.02

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☐ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☒ Other Corrective document submission for
assignment recorded at
Reel/Frame 011748/0143.

Execution Date: _____

2. Name and address of receiving party(ies)

Name: PARATEK MICROWAVE, INC.

Internal Address: _____

Street Address: 6935 Oakland Mills Road

Suite N

City: Columbia State: MD Zip: 21045Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)

09/768,690

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

MAR - 1 2002

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Alan G. TOWNERInternal Address: Pietragallo, Bosick & GordonStreet Address: One Oxford Centre, 38th Floor301 Grant StreetCity: Pittsburgh State: PA Zip: 152196. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41).....\$ 40.00☐ Enclosed☒ Authorized to be charged to deposit account

8. Deposit account number:

500859

(Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*Alan G. TOWNER

Name of Person Signing

Signature

Feb. 15, 2002

Date

Total number of pages including cover sheet, attachments, and documents: 9

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

03/13/2002 GTOW11 00000129 500859 09768690

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40.00 CH

ASSIGNMENT

WHEREAS, WE, **LOUISE C. SENGUPTA**, residing at 12 New Haven Blvd., Warwick, Maryland 21912; **XUBAI ZHANG**, residing at 8751 Manahan Drive, Ellicott City, Maryland 21043; and, **LUNA H. CHIU**, residing at 3929 Bush Court, Abingdon, Maryland 21009; respectively, have invented certain improvements in: **ELECTRONICALLY TUNABLE, LOW-LOSS CERAMIC MATERIALS INCLUDING A TUNABLE DIELECTRIC PHASE AND MULTIPLE METAL OXIDE PHASES** for which we filed Application Serial No. 09/768,690 having a filing date of January 24, 2001; and

WHEREAS, **PARATEK MICROWAVE, INC.**, a corporation organized and existing under the laws of the State of ^{Delaware}~~Maryland~~, having its principal place of business at 6935 Oakland Mills Road, Suite N, Columbia, MD 21045, is desirous of acquiring an interest therein;

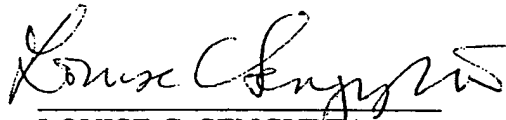


NOW, THEREFORE, in consideration of One (\$1.00) Dollar and other good and valuable consideration paid to us by said assignee, receipt whereof we hereby acknowledge, we do hereby assign, sell, transfer, and set over unto said assignee the entire right, title, and interest in and to said application and the inventions and improvements therein disclosed for the United States and all foreign countries and any Letters Patent which may issue therefor in the United States and all foreign countries and all divisions, reissues, continuations, renewals, and/or extensions thereof including all priority rights under the International Convention associated therewith for each country and the Union, said assignee to have and to hold the interests herein assigned to the full ends of the terms of said Letters Patent and any and all divisions, reissues, continuations, renewals, and/or extensions thereof, respectively, as fully and entirely as the same would have been held and enjoyed by us had this assignment not been made.

The Commissioner of Patents and Trademarks is requested to issue such Letters Patent in accordance herewith. We covenant that we are the lawful owners of the said application, inventions, and improvements, that the same are unencumbered, that no license has been granted to make, use, or vend the said

inventions or improvements or any of them, and that we have the full right to make this assignment.

And for the consideration aforesaid, we agree jointly and individually that we will communicate to said assignee or the representatives thereof any facts known to us respecting said inventions and improvements, and will, upon request, but without expense to us, testify in any legal proceedings, sign all lawful papers, execute all divisional, reissue, continuation, renewal, and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts, deemed necessary or expedient by said assignee or by counsel for said assignee, to assist or enable said assignee to obtain and enforce full benefits from the rights and interests herein assigned. This assignment shall be binding upon our heirs, executors, administrators, and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors, and/or assigns, as the case may be, of said assignee.


LOUISE C. SENGUPTA

3/1/01
Date


XUBAI ZHANG

3/1/01
Date


LUNA H. CHIU

3/1/01
Date

State of Maryland:

: ss.

County of Howard:

Before me, a Notary Public in and for the said County and State, personally appeared **LOUISE C. SENGUPTA, XUBAI ZHANG and LUNA H. CHIU** who acknowledged that they are the persons who executed the foregoing assignment and acknowledged it to be their free and voluntary act and deed.

Witness my hand and notarial seal this 1st day of March, 2001.

Deborah Cowling
Notary Public

(NOTARIAL SEAL)

ASSIGNMENT

WHEREAS, WE, **LOUISE C. SENGUPTA**, residing at 12 New Haven Blvd., Warwick, Maryland 21912; **XUBAI ZHANG**, residing at 8751 Manahan Drive, Ellicott City, Maryland 21043; and, **LUNA H. CHIU**, residing at 3929 Bush Court, Abingdon, Maryland 21009; respectively, have invented certain improvements in: **ELECTRONICALLY TUNABLE, LOW-LOSS CERAMIC MATERIALS INCLUDING A TUNABLE DIELECTRIC PHASE AND MULTIPLE METAL OXIDE PHASES** for which we filed Application Serial No. 09/768,690 having a filing date of January 24, 2001; and

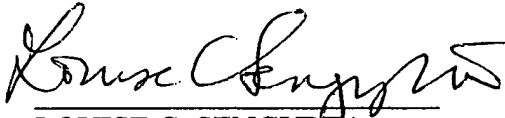
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inventions or improvements or any of them, and that we have the full right to make this assignment.

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LOUISE C. SENGUPTA

3/1/01
Date


XUBAI ZHANG

3/1/01
Date


LUNA H. CHIU

3/1 /01
Date

State of Maryland:

: ss.

County of Howard:

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Witness my hand and notarial seal this 1st day of March, 2001.

Deborah Cowling
Notary Public

(NOTARIAL SEAL)



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

JULY 17, 2001

PTAS
ECKERT SEAMANS CHERIN & MELLOTT, LLC
ALAN G. TOWNER
600 GRANT STREET, 44TH FLOOR
PITTSBURGH, PENNSYLVANIA 15219



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UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 04/23/2001

REEL/FRAME: 011748/0143
NUMBER OF PAGES: 6

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
SENGUPTA, LOUISE C.

DOC DATE: 03/01/2001

ASSIGNOR:
ZHANG, XUBAI

DOC DATE: 03/01/2001

ASSIGNOR:
CHIU, LUNA H.

DOC DATE: 03/01/2001

ASSIGNEE:
PARATEK MICROWAVE, INC.
6935 OAKLAND MILLS ROAD, SUITE N
COLUMBIA, MARYLAND 21045

SERIAL NUMBER: 09768690
PATENT NUMBER:

FILING DATE: 01/24/2001
ISSUE DATE:

011748/0143 PAGE 2

ALLYSON PURNELL, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS